# Original/Duplicate/Triplicate
# CONTRACT CERTIFICATE
(For Other Works)

No 1st & Final AS  Date.....2017

Division: **BBMP / YNK**  Sub-Division: **Yelahanka Sub – Division.**

Bill Received No.  Dated  Divisional  Cash Book Voucher No..... Dated.....

Sub Divisional  **Work Code: 002-18-000011.**

Schedule Docket No.  Head of Account: 3330  Est.Cost: **30.00** Lakhs  B.R.No. :

Name of Work : Drilling of borewells in village limit areas in ward -02 of yelahanka Sub division,

Name of Contractor and Full Address: **Technical Manager (West) KRIDL, BBMP, Bangalore.**

Reference to Agreement No. EE/YNK.D/ **W.O/ 000057 /2017-18.**  Date: 20-11-2017.

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Certified that the measurements were taken by me on 23.12.2017 and recorded of Pages 114642 **to** 114656 measurement Book No. **1147** and that the work is satisfactorily executed.

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

**Officer-in-charge of work**

Certified that the measurements were taken by me on 22/1/18 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Asst. Executive Engineer
Yelahanka Sub Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

**Sub Division Officer**

II Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being .....percent Rs.....
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of
   b) Payments Now made } cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Total amount adjusted -

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

Witness
1.
2.
Dated  Signature of Contractor

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Stamp

Paid by money Cheque No.....Dated.....
Cash Rs.....
Dated.....

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

(For Executive Officer)

Initials of Officer making payment

**Executive Engineer**

| Previous leasurment | | Present Measurement | | | Total up-to date | | Remarks |
|---|---|---|---|---|---|---|---|
| | cost | Qty | Rate | Cost | Qty | cost | |
| | – | 4.00 | 1938.46 | 7753.84 | 4.00 | 7753.84 | |
| | – | | | 0.00 | 0.00 | 0.00 | |
| | – | 200.00 | 315.18 | 63036.00 | 200.00 | 63036.00 | |
| | – | 200.00 | 412.00 | 82400.00 | 200.00 | 82400.00 | |
| | – | 200.00 | 458.35 | 91670.00 | 200.00 | 91670.00 | |
| | – | 200.00 | 484.10 | 96820.00 | 200.00 | 96820.00 | |
| | – | 200.00 | 560.32 | 112064.00 | 200.00 | 112064.00 | |
| | – | 200.00 | 600.49 | 120098.00 | 200.00 | 120098.00 | |
| | – | 80.00 | 640.66 | 51252.80 | 80.00 | 51252.80 | |
| | – | 180.00 | 1325.00 | 238500.00 | 180.00 | 238500.00 | |
| | – | 60 | 1721.13 | 103267.80 | 60.00 | 103267.80 | |
| | – | 4 | 100.00 | 400.00 | 4.00 | 400.00 | |
| | – | 29 | 150.00 | 4350.00 | 29.00 | 4350.00 | |
| | | 3 | 70600.00 | 211800.00 | 3.00 | 211800.00 | |
| | – | 1200.00 | 457.92 | 549504.00 | 1200.00 | 549504.00 | |
| | – | 195.00 | 130.00 | 25350.00 | 195.00 | 25350.00 | |
| – | – | 2395.00 | 188.70 | 451936.50 | 2395.00 | 451936.50 | |
| – | – | 180.00 | 88.00 | 15840.00 | 180.00 | 15840.00 | |
| – | – | 3.00 | 302.00 | 906.00 | 3.00 | 906.00 | |
| – | – | 150.00 | 140.40 | 21060.00 | 150.00 | 21060.00 | |
| – | – | 200.00 | 10.80 | 2160.00 | 200.00 | 2160.00 | |
| – | – | 100.00 | 85.00 | 8500.00 | 100.00 | 8500.00 | |
| – | – | 6.00 | 345.00 | 2070.00 | 6.00 | 2070.00 | |

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

| Previous Measurment | | Present Measurement | | | Total up-to date | | Remarks |
|---|---|---|---|---|---|---|---|
| | cost | Qty | Rate | Cost | Qty | cost | |
| | – | 3.00 | 280.00 | 840.00 | 3.00 | 840.00 | |
| | – | 3.00 | 2727.00 | 8181.00 | 3.00 | 8181.00 | |
| | – | 12.00 | 180.00 | 2160.00 | 12.00 | 2160.00 | |
| | – | 3.00 | 1585.76 | 4757.28 | 3.00 | 4757.28 | |
| | – | 3.00 | 227.90 | 683.70 | 3.00 | 683.70 | |
| | – | 12.00 | 80.00 | 960.00 | 12.00 | 960.00 | |
| | – | 3.00 | 350.00 | 1050.00 | 3.00 | 1050.00 | |
| | – | 3.00 | 1547.00 | 4641.00 | 3.00 | 4641.00 | |
| | – | 64800.00 | 0.33 | 21384.00 | 64800.00 | 21384.00 | |
| | – | 3.00 | 11000.00 | 33000.00 | 3.00 | 33000.00 | |
| | – | 21.00 | 340.00 | 7140.00 | 21.00 | 7140.00 | |
| | – | 78.75 | 189.00 | 14883.75 | 78.75 | 14883.75 | |
| | – | 96.50 | 320.12 | 30891.58 | 96.50 | 30891.58 | |
| | – | 85.20 | 289.38 | 24655.18 | 85.20 | 24655.18 | |
| | – | 78.75 | 61.00 | 4803.75 | 78.75 | 4803.75 | |
| | – | 4.00 | 2175.12 | 8700.48 | 4.00 | 8700.48 | |
| | | 3.00 | 12000.00 | 36000.00 | 3.00 | 36000.00 | |
| | | | | **2465471** | | **2465471** | |
| | 3% for KRIDL Charges | | | **73964** | | **73964** | |
| | 1% for labour less | | | **24655** | | **24655** | |
| | 12% for applicable GST Charges | | | **295856** | | **295856** | |
| | | | | **2859946.0** | | **2859946.0** | |

A.E.
23/12/17

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

| sl no | Description of work | Unit |
|---|---|---|
| 17 | Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., | No. |
| 18 | Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, | No |
| 19 | Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15 | No. |
| 20 | KSRB 13-7.1-4 Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 Page No. 90 Item No. 13.55 / PWD SR 2016-17 | Nos |
| 21 | Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete 50 mm dia P. No. 92 / I. No. 13.81 3 PWD SR 2016-17 | No |
| 22 | Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete | No |
| 23 | Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery. Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications | No |
| 24 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps TPN P No. 47 / I No.6.16.5 KPWD SR 2014-15 | No |
| 25 | Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete P.No 49, I No. 6.40.2 KPWD Electrical SR 2014-15 | Sq Cr |
| 26 | Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 12.5HP to 15 HP Star Delta Starter SERDED Rate | No |
| 27 | cutting of roads surface for pipline trenches and disposing the excavated stuff as directed including barricadding danger lightenng etc in the Asphalt surface road | Cum |
| 28 | KSRB 2-2.1 Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No | Cum |
| 29 | Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq.cm working pressure 75mm outside diameter with special flange, compression type fittings, wall clips , making good the wall, ceiling and floor including cost all material, labour charges, HOM of equipments and testing complete as per specifications. | Rmt |
| 30 | 63mm dia 6 KSC PVC pipe | Rmt |
| 31 | Refilling available earth around pipelines, cables in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering lead upto 50m and lift upto 1.5m including cost of labour complete as per specification | Cum |
| 32 | KSRB 13.6.3-6 Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. | Each |
| | Bescom charges | |
| | | |

Certificates:

1 The above work is done satisfactorily and complete in all respect.
2 There is no department Material issue for the above work.
3 This works comes under BBMP Limit.

A.E
23/12/17.

| sl no | Description of work | Uni |
|---|---|---|
| 1 | Geophysical investigations of site for sinking borewell for supplying drinking waster to the habitation either through the hand pump, MWS or PWSS by vertical electrical sounding by adopting verner or schlumbergers method Including rerconnaissance survey of geological formation. Geeophysical investigation of existing ground water in the vicinity , nits quality, quantity and acceptabilkity7 of the users indicating the locations of site, recommended depth of casing pipe rerquired to seal the top unconsolidated formaation for proper depth of 1 meter in consolidating formation for proper seating of casing piupe depth of drilling required to cover dull deth of aquuifer proposed to be trapped propable yield and other information requirred including transportation of instrument and accessories to the work site, engaging technical personal and labour requirred (P-47 Item No.9.4)PRED SR 2012-13 | No |
| 2 | Sinking of borewell of 165mm dia clear, using super fast hydralic rig of capacity 250 PSIG & above 900 CMF & above all strata including over burden up to 20m fixing of casing pipe, collars and capo with necessary cutting and threadimg including Iransportation of rig and swupporting vehicle, crew charges and copst of consumables etc., complete including yield testing at the final depth with a minimum working of comprressor for one hour (excluding cost of casing pipe, collers,cap) P-47 Item No.9.1)PRED SR 2012-13 | Rmt |
| | 0.00 to 50.00 mtrs | |
| | 50.00 to 100.00 mtrs | |
| | 100.00 to 150.00 mtrs | |
| | 150.00 to 200.00 mtrs | |
| | 200.00 to 250.00 mtrs | |
| | 250.00 to 300 mtrs | |
| | 300.00 to 350 mtrs | |
| 3 | Supply of ISI mark 175mm nominal bord plain end steel casing pipe grade of steel feet410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendment electric resistance welded tube material and confirming to IS 1387/1993 and manufactured by basic open harth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming to IS 4270:2001 and the other wnd with screwed pipes. All pipes shall be reasonally free from defects. the tubes shall be reasonably straight should be with ISI marking weighing 25.10 kg/mtr (inclusive of all taxes duties) price include coller-medium duty) P-III Item No.84) | Rmt. |
| 4 | Providing 250mm dia PVC pipe 6kg/cm SE Approved Rates | Rmt. |
| 5 | Providing and Supplying 160 mm dia MS cap (as per PREC SR 2012-13) etc complete as per specification | each |
| 6 | Providing and fixing 175mm dia MS collar (PRED Bangalore Circle SR 2012-13 P.No.iii, I No. 86) | each |
| 7 | Supply and delivery of submersible pump sets suitable for borewell of 165 mm dia with specified dyty conditions as detailed below and satisfying performance characteristics for pump and moter specified in BIS with ISI mark with a minimum efficiency of 42% pump shall confirm to IS 8034/2002 and motor conforming to IS 9283/1995 with ISI certification with latest amendments for the following 1.0 HP/75KW ATALANTA/SUGUNA/CRI/KIRLOSKAR /OTHER EQUIVALENT PUMPS (page no.XXXXII / Sl.No.33 Code No.2)2015-16 | No's |
| 8 | Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50 mm dia nominal bore with all fittings ( earth work in trenches to be measured and paid for separately ) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. (SR of PWP, & IWTD SR 2016-17, P.No.90, I No.13.15) | Rmt |
| 9 | Heavy Duty Collar 50 mm dia | Nos |
| 10 | Supplying and drawing 3 crore flat PVC, submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 to IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts.)P.No.49/ It.No.29c(1) 2.5sqm of 36 strands 0.3mm dia group-A KPWD Electrical SR 2014-15 | Rmt |
| 11 | Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) Page No. 558, Items No-3 BWSSB SR for 2014-15 ) ( (4x270)/6)=180.00 | Per Length |
| 12 | Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15 | Each |
| 13 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15 | Mtr |
| 14 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15 | Mtr |
| 15 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete (As per Civil SR KSRB I-2, P-7) P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15 | Mtr |
| 16 | Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV | Mtr |